

Tutorial – II

1 : Predict and write output for the following code.

```
using System;

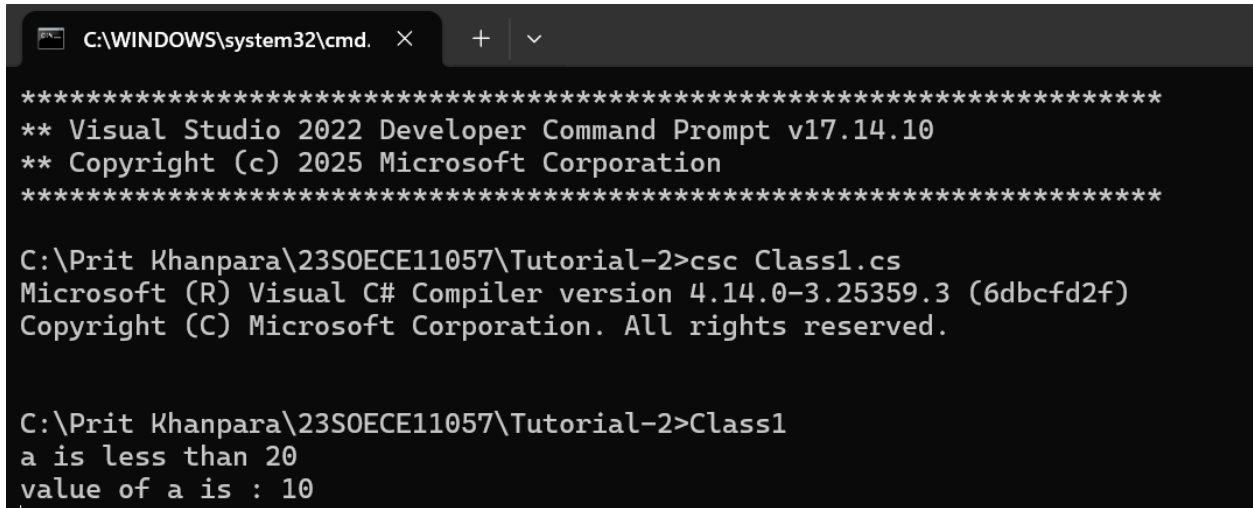
namespace DecisionMaking
{
    class Program
    {
        static void Main(string[] args)
        {
            /* local variable definition */
            int a = 10;

            /* check the boolean condition using if statement */
            if (a < 20)
            {
                /* if condition is true then print the following */
                Console.WriteLine("a is less than 20");
            }

            Console.WriteLine("value of a is : {0}", a);
            Console.ReadLine();
        }
    }
}
```

```
}  
}
```

OUTPUT :-



```
C:\WINDOWS\system32\cmd. X + v  
*****  
** Visual Studio 2022 Developer Command Prompt v17.14.10  
** Copyright (c) 2025 Microsoft Corporation  
*****  
  
C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class1.cs  
Microsoft (R) Visual C# Compiler version 4.14.0-3.25359.3 (6dbcfd2f)  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class1  
a is less than 20  
value of a is : 10
```

2 : Write missing statement to get the desired output.

CODE :-

```
using System;
```

```
namespace DecisionMaking
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            /* local variable definition */
```

```
            int a = 100;
```

```
            /* check the boolean condition */
```

```
            if (a < 20)
```

```
            {
```

```
                /* if condition is true then print the following */
```

```
                Console.WriteLine("a is less than 20");
```

```
            }
```

```
            else
```

```
            {
```

```

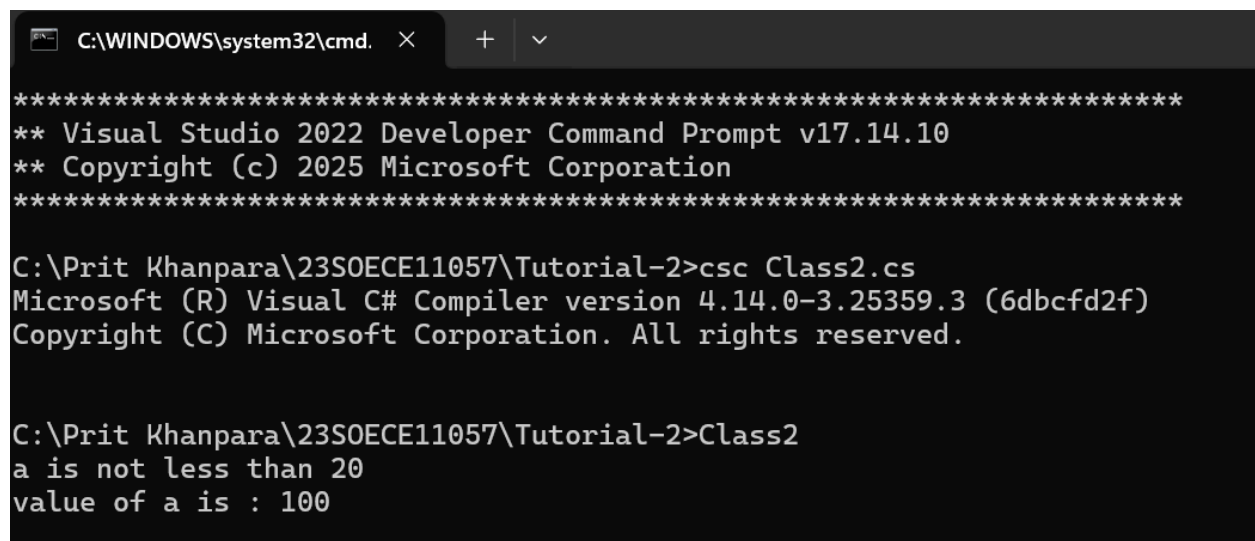
        /* if condition is false then print the following */
        Console.WriteLine("a is not less than 20"); // Missing statement-1
    }

    Console.WriteLine("value of a is : {0}", a); // Missing statement-2

    Console.ReadLine();
}
}
}

```

OUTPUT :-



```

C:\WINDOWS\system32\cmd.  X  +  v
*****
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class2
a is not less than 20
value of a is : 100

```

3 : Correct the following code and write output for the corrected code.

CODE :-

```

using System;

namespace ConsoleApplication1
{
    class Program
    {
        static void Main(string[] args)
        {
            // Strings should be used instead of char for names
            string firstName = "John";

```

```

        string lastName = "Doe";

        Console.WriteLine("Name: " + firstName + " " + lastName);

        Console.Write("Please enter a new first name: ");
        firstName = Console.ReadLine();

        Console.WriteLine("New name: " + firstName + " " + lastName);

        Console.ReadLine();
    }
}

```

OUTPUT :-

```

C:\WINDOWS\system32\cmd.  X  +  v
*****
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*****
C:\Prit Khanpara\23S0ECE11057\Tutorial-2>csc Class3.cs
Microsoft (R) Visual C# Compiler version 4.14.0-3.25359.3 (6dbcfd2f)
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C:\Prit Khanpara\23S0ECE11057\Tutorial-2>Class3
Name: John Doe
Please enter a new first name: prit
New name: prit Doe

```

4 : Input two number A and B. perform different operations using different operators and different data types available in C#. (Note : Follow all the operators and data types to do above task. Use Online help whenever necessary.)

CODE :-

```

using System;

namespace OperatorAndDataTypesDemo
{

```

```

class Program
{
    static void Main(string[] args)
    {
        // Input two numbers
        Console.Write("Enter first number (A): ");
        double A = Convert.ToDouble(Console.ReadLine());

        Console.Write("Enter second number (B): ");
        double B = Convert.ToDouble(Console.ReadLine());

        Console.WriteLine("\n--- Arithmetic Operators ---");
        Console.WriteLine($"A + B = {A + B}");
        Console.WriteLine($"A - B = {A - B}");
        Console.WriteLine($"A * B = {A * B}");
        Console.WriteLine($"A / B = {A / B}");
        Console.WriteLine($"A % B = {A % B}");

        Console.WriteLine("\n--- Relational Operators ---");
        Console.WriteLine($"A == B : {A == B}");
        Console.WriteLine($"A != B : {A != B}");
        Console.WriteLine($"A > B : {A > B}");
        Console.WriteLine($"A < B : {A < B}");
        Console.WriteLine($"A >= B : {A >= B}");
        Console.WriteLine($"A <= B : {A <= B}");
        Console.WriteLine("\n--- Logical Operators ---");
        bool cond1 = A > 0;
        bool cond2 = B > 0;
        Console.WriteLine($"cond1 && cond2 : {cond1 && cond2}");
        Console.WriteLine($"cond1 || cond2 : {cond1 || cond2}");
        Console.WriteLine($"!cond1 : {!cond1}");
        Console.WriteLine("\n--- Bitwise Operators (with int type) ---");
        int x = (int)A;
        int y = (int)B;
        Console.WriteLine($"x & y = {x & y}");
        Console.WriteLine($"x | y = {x | y}");
        Console.WriteLine($"x ^ y = {x ^ y}");
        Console.WriteLine($"~x = {~x}");
        Console.WriteLine($"x << 1 = {x << 1}");
        Console.WriteLine($"y >> 1 = {y >> 1}");
    }
}

```

```

Console.WriteLine("\n--- Assignment Operators ---");
double C = A; // simple assignment
Console.WriteLine($"C = {C}");
C += B; // C = C + B
Console.WriteLine($"C += B : {C}");
C -= B; // C = C - B
Console.WriteLine($"C -= B : {C}");
C *= B; // C = C * B
Console.WriteLine($"C *= B : {C}");
C /= B; // C = C / B
Console.WriteLine($"C /= B : {C}");
C %= B; // C = C % B
Console.WriteLine($"C %= B : {C}");
Console.WriteLine("\n--- Unary Operators ---");
int num = (int)A;
Console.WriteLine($"num++ = {num++}");
Console.WriteLine($"++num = {++num}");
Console.WriteLine($"num-- = {num--}");
Console.WriteLine($"--num = {--num}");
Console.WriteLine($"-num = {-num}");
Console.WriteLine($"+num = {+num}");
Console.WriteLine("\n--- Other Data Types ---");
string message = "Hello";
char letter = 'A';
decimal preciseValue = 12345.6789M;
Console.WriteLine($"String: {message}");
Console.WriteLine($"Char: {letter}");
Console.WriteLine($"Decimal: {preciseValue}");
Console.WriteLine($"Bool: {cond1}");
Console.WriteLine("\n--- Conditional (Ternary) Operator ---");
string result = (A > B) ? "A is greater" : "B is greater or equal";
Console.WriteLine(result);

Console.WriteLine("\nPress Enter to Exit...");
Console.ReadLine();
}
}
}

```

OUTPUT :-



C:\WINDOWS\system32\cmd. X



```
C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class4.cs
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```

```
C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class4
Enter first number (A): 1
Enter second number (B): 2
```

--- Arithmetic Operators ---

```
A + B = 3
A - B = -1
A * B = 2
A / B = 0.5
A % B = 1
```

--- Relational Operators ---

```
A == B : False
A != B : True
A > B : False
A < B : True
A >= B : False
A <= B : True
```

--- Logical Operators ---

```
cond1 && cond2 : True
cond1 || cond2 : True
!cond1 : False
```

--- Bitwise Operators (with int type) ---

```
x & y = 0
x | y = 3
x ^ y = 3
~x = -2
x << 1 = 2
y >> 1 = 1
```

--- Assignment Operators ---

```
C = 1
C += B : 3
C -= B : 1
C *= B : 2
C /= B : 1
C %= B : 1
```

--- Unary Operators ---

```
num++ = 1
++num = 3
num-- = 3
--num = 1
-num = -1
+num = 1
```

--- Other Data Types ---

```
String: Hello
Char: A
Decimal: 12345.6789
Bool: True
```

--- Conditional (Ternary) Operator ---

```
B is greater or equal
```

```
Press Enter to Exit...
```

5 : Rearrange the given code to correct the program. The resultant program will be to enter 5 elements into an array and print sum of these elements.

CODE :-

```
using System;
```

```
namespace ConsoleApplication1
{
    class Program
    {
        static void Main(string[] args)
        {
            int[] arr = new int[5]; // Declare array
            int sum = 0;           // Initialize sum

            // Input loop
            for (int i = 0; i < 5; i++)
            {
                Console.Write("Enter Element {0}: ", i);
                string str = Console.ReadLine();
                arr[i] = Convert.ToInt32(str);
            }

            // Sum loop
            for (int i = 0; i < 5; i++)
            {
                sum = sum + arr[i];
            }

            Console.WriteLine("Sum of Elements : {0}", sum);

            Console.ReadLine();
        }
    }
}
```

OUTPUT :-


```
C:\WINDOWS\system32\cmd. X + v
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class5.cs
Microsoft (R) Visual C# Compiler version 4.14.0-3.25359.3 (6dbcf2f)
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class5
Enter Element 0: 12
Enter Element 1: 11
Enter Element 2: 23
Enter Element 3: 34
Enter Element 4: 65
Sum of Elements : 145
```

6: Write missing statement to get the desired output.

CODE :-

using System;

```
public class Hello3
{
    public static void Main(string[] args)
    {
        Console.WriteLine("Hello, World!");
        Console.WriteLine("You entered the following {0} command line arguments:",
            args.Length);

        // Missing statement-1
        for (int i = 0; i < args.Length; i++)
        {
            // Missing statement-2
            Console.WriteLine(args[i]);
        }
    }
}
```

OUTPUT :-

```
C:\WINDOWS\system32\cmd.  X  +  v

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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class6.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class6
Hello, World!
You entered the following 0 command line arguments:
```

7 : Predict and write the output of the given code.

CODE :-

using System;

```
namespace CalculatorApplication
{
    class NumberManipulator
    {
        public void swap(ref int x, ref int y)
        {
            int temp;
            temp = x; // save the value of x
            x = y;    // put y into x
            y = temp; // put temp into y
        }
    }

    class TestRef
    {
        static void Main(string[] args)
        {
```

```

NumberManipulator n = new NumberManipulator();

// local variable definition
int a = 100;
int b = 200;

Console.WriteLine("Before swap, value of a : {0}", a);
Console.WriteLine("Before swap, value of b : {0}", b);

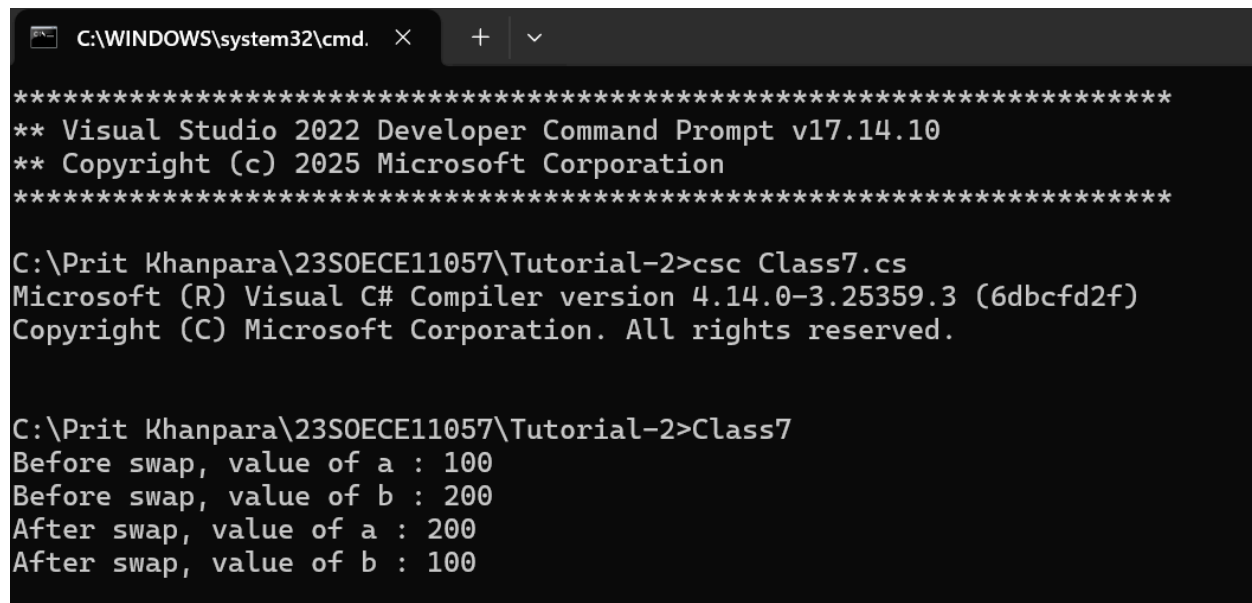
// calling a function to swap the values
n.swap(ref a, ref b);

Console.WriteLine("After swap, value of a : {0}", a);
Console.WriteLine("After swap, value of b : {0}", b);

Console.ReadLine(); // wait for user to press a key
}
}
}

```

OUTPUT :-



```

C:\WINDOWS\system32\cmd.  X  +  v

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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class7.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class7
Before swap, value of a : 100
Before swap, value of b : 200
After swap, value of a : 200
After swap, value of b : 100

```

8 : Find out error code and correct it. Write the output of the corrected code.

CODE :-

```
using System;
```

```
namespace CalculatorApplication
```

```
{  
    class NumberManipulator  
    {  
        public int getValues(out int x, out int y, out int z)  
        {  
            Console.Write("Enter the first value: ");  
            x = Convert.ToInt32(Console.ReadLine());  
  
            Console.Write("Enter the second value: ");  
            y = Convert.ToInt32(Console.ReadLine());  
  
            Console.Write("Enter the third value: ");  
            z = Convert.ToInt32(Console.ReadLine());  
  
            int sum = x + y + z;  
            return sum;  
        }  
    }  
}
```

```
class TestOut
```

```
{  
    static void Main(string[] args)  
    {  
        NumberManipulator n = new NumberManipulator();  
  
        // local variable definition  
        int a, b, c, sum;  
  
        // calling a function to get the values  
        sum = n.getValues(out a, out b, out c);  
  
        Console.WriteLine("After method call, value of a : {0}", a);  
        Console.WriteLine("After method call, value of b : {0}", b);  
        Console.WriteLine("After method call, value of c : {0}", c);  
        Console.WriteLine("Sum : {0}", sum);  
    }  
}
```

```

        Console.ReadLine(); // wait for user to press a key
    }
}
}

```

OUTPUT :-

```

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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class8.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class8
Enter the first value: 123
Enter the second value: 456
Enter the third value: 789
After method call, value of a : 123
After method call, value of b : 456
After method call, value of c : 789
Sum : 1368

```

9 : Given an array A containing $2*N+2$ positive numbers, out of which $2*N$ numbers exist in pairs whereas the other two number occur exactly once and are distinct. Find the other two numbers.

CODE :-

```
using System;
```

```
class Program
```

```

{
    static void FindTwoUnique(int[] arr, int n)
    {
        int xor = 0;

        // Step 1: XOR of all elements
        for (int i = 0; i < 2 * n + 2; i++)
            xor ^= arr[i];
    }
}

```

```

// Step 2: Get rightmost set bit
int setBit = xor & -xor;

int x = 0, y = 0;

// Step 3: Divide numbers into two groups
for (int i = 0; i < 2 * n + 2; i++)
{
    if ((arr[i] & setBit) != 0)
        x ^= arr[i];
    else
        y ^= arr[i];
}

// Step 4: Print result in sorted order
if (x < y)
    Console.WriteLine(x + " " + y);
else
    Console.WriteLine(y + " " + x);
}

static void Main()
{
    // Example 1
    int[] arr1 = { 1, 2, 3, 2, 1, 4 };
    int N1 = 2;
    Console.WriteLine("Output for Example 1: ");
    FindTwoUnique(arr1, N1);

    // Example 2
    int[] arr2 = { 2, 1, 3, 2 };
    int N2 = 1;
    Console.WriteLine("Output for Example 2: ");
    FindTwoUnique(arr2, N2);
}
}

```

OUTPUT :-

```
C:\WINDOWS\system32\cmd. X + v
*****
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class9.cs
Microsoft (R) Visual C# Compiler version 4.14.0-3.25359.3 (6dbcf2f)
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class9
Output for Example 1: 3 4
Output for Example 2: 1 3
```

10: Given a matrix `mat[][]` of size `N x M`, where every row and column is sorted in increasing order, and a number `X` is given. The task is to find whether element `X` is present in the matrix or not.

CODE :-

```
using System;

class Program
{
    static int matSearch(int[,] mat, int N, int M, int X)
    {
        int row = 0, col = M - 1;

        while (row < N && col >= 0)
        {
            if (mat[row, col] == X)
                return 1;
            else if (mat[row, col] > X)
                col--; // move left
            else
                row++; // move down
        }

        return 0; // not found
    }
}
```

```

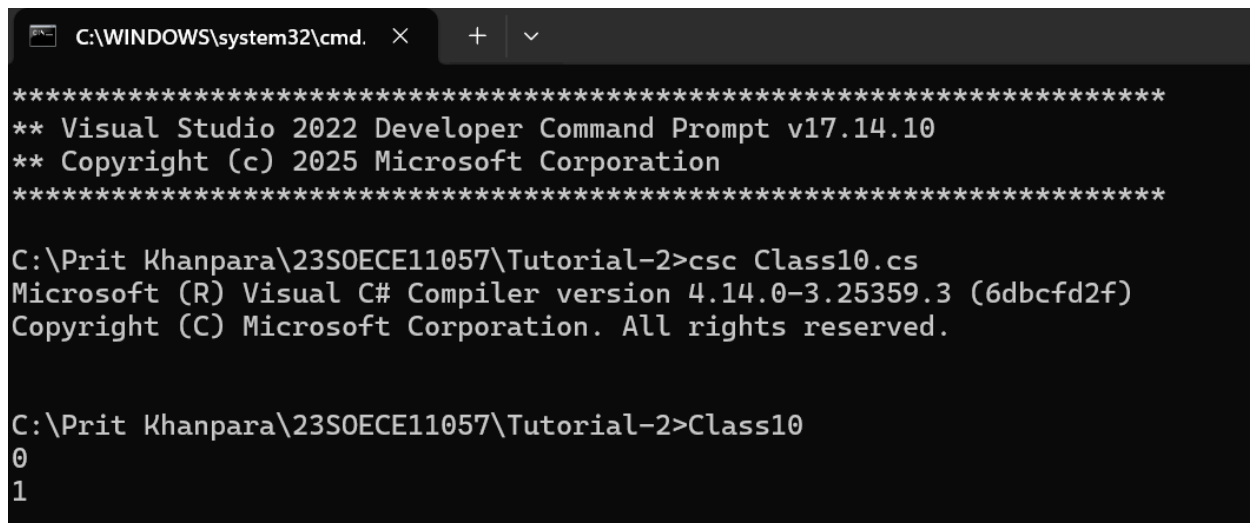
    }

    static void Main()
    {
        // Example 1
        int[,] mat1 = { { 3, 30, 38 }, { 44, 52, 54 }, { 57, 60, 69 } };
        Console.WriteLine(matSearch(mat1, 3, 3, 62)); // Output: 0

        // Example 2
        int[,] mat2 = { { 18, 21, 27, 38, 55, 67 } };
        Console.WriteLine(matSearch(mat2, 1, 6, 55)); // Output: 1
    }
}

```

OUTPUT :-



```

C:\WINDOWS\system32\cmd.  X  +  v

*****
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class10.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class10
0
1

```

11: Write a program to find the sum of N elements of an Array.

CODE :-

```

using System;

class Program
{
    static void Main()
    {
        Console.Write("Enter number of elements (N): ");
    }
}

```



```

int N = Convert.ToInt32(Console.ReadLine());

int[] arr = new int[N];
int sum = 0;

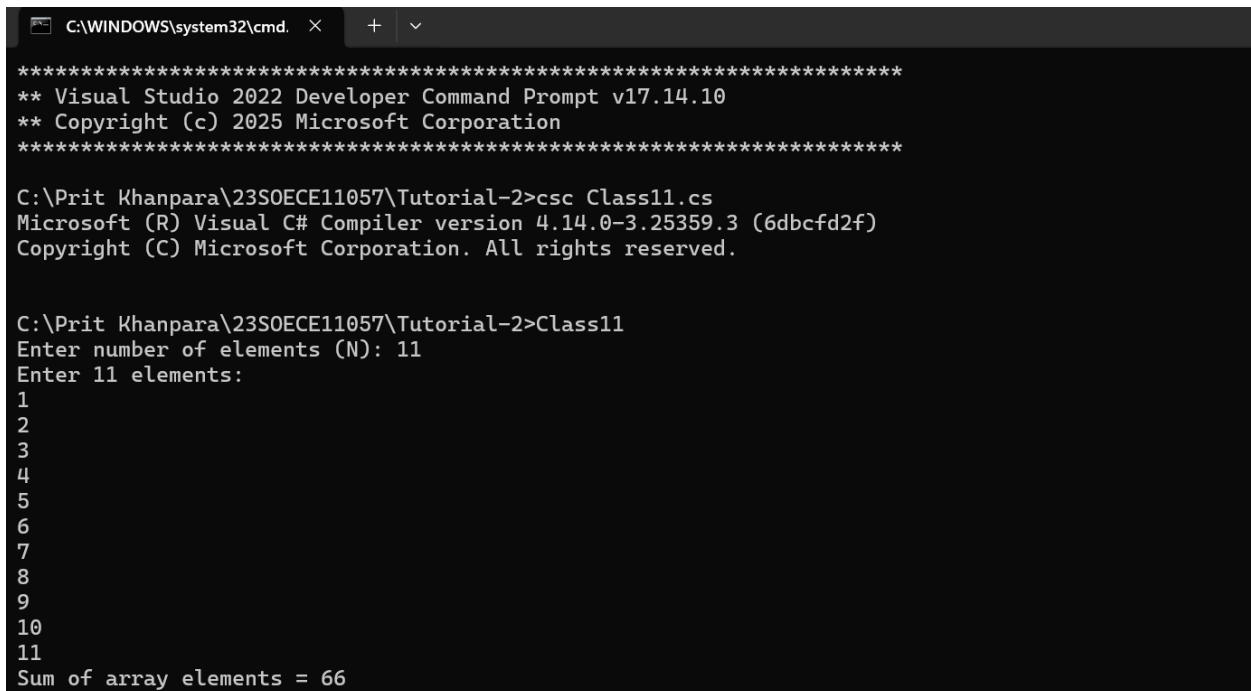
Console.WriteLine("Enter " + N + " elements:");

for (int i = 0; i < N; i++)
{
    arr[i] = Convert.ToInt32(Console.ReadLine());
    sum += arr[i];
}

Console.WriteLine("Sum of array elements = " + sum);
}
}

```

OUTPUT :-



```

C:\WINDOWS\system32\cmd. x + v
*****
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class11.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class11
Enter number of elements (N): 11
Enter 11 elements:
1
2
3
4
5
6
7
8
9
10
11
Sum of array elements = 66

```

12: Write a program to find the element from an Array and print 1 if element is found else print 0.

CODE :-

```
using System;
```

```
class Program
```

```
{
    static void Main()
    {
        Console.Write("Enter number of elements (N): ");
        int N = Convert.ToInt32(Console.ReadLine());

        int[] arr = new int[N];

        Console.WriteLine("Enter " + N + " elements:");
        for (int i = 0; i < N; i++)
        {
            arr[i] = Convert.ToInt32(Console.ReadLine());
        }

        Console.Write("Enter element to search: ");
        int X = Convert.ToInt32(Console.ReadLine());

        int found = 0;

        for (int i = 0; i < N; i++)
        {
            if (arr[i] == X)
            {
                found = 1;
                break;
            }
        }

        Console.WriteLine(found);
    }
}
```

OUTPUT :-

```
C:\WINDOWS\system32\cmd. x + v
*****
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class12.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class12
Enter number of elements (N): 3
Enter 3 elements:
33
44
55
Enter element to search: 11
0
```

13. Write a Program that will accept the amount and find how many minimum no of notes you required for that.

(Using the rupee notes of 1, 2, 5, 10, 20, 50, 100, 200, 500, 2000)

Input: 5748

Output:

Notes of Rs.2000 = 2 Notes of Rs.500 = 3 Notes of Rs.200 = 1

Notes of Rs.20 = 2 Notes of Rs.10 = 0 Notes of Rs.5 = 1

Notes of Rs.2 = 1 Notes of Rs.1 = 1

CODE :-

using System;

class Program

{

static void Main()

{

int[] notes = { 2000, 500, 200, 100, 50, 20, 10, 5, 2, 1 };

Console.Write("Enter amount: ");

int amount = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Minimum notes required:");

foreach (int note in notes)

```

    {
        int count = amount / note;
        if (count > 0)
        {
            Console.WriteLine("Notes of Rs." + note + " = " + count);
            amount %= note;
        }
    }
}
}
}

```

OUTPUT :-

```

C:\WINDOWS\system32\cmd.  X  +  v

*****
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*****

C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class13.cs
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C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class13
Enter amount: 3
Minimum notes required:
Notes of Rs.2 = 1
Notes of Rs.1 = 1

```

14. Write a Program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths ≥ 65

Marks in Phy ≥ 55

Marks in Chem ≥ 50 and

Total in all three subject ≥ 180 or

Total in Math and Physics ≥ 140

INPUT:

Input the marks obtained in Maths :72

Input the marks obtained in Physics :65

Input the marks obtained in Chemistry :51

CODE :-

```
using System;
```

```
class Program
```

```
{
```

```
    static void Main()
```

```
    {
```

```
        Console.Write("Input the marks obtained in Maths : ");
```

```
        int maths = Convert.ToInt32(Console.ReadLine());
```

```
        Console.Write("Input the marks obtained in Physics : ");
```

```
        int physics = Convert.ToInt32(Console.ReadLine());
```

```
        Console.Write("Input the marks obtained in Chemistry : ");
```

```
        int chemistry = Convert.ToInt32(Console.ReadLine());
```

```
        int totalAll = maths + physics + chemistry;
```

```
        int totalMathPhy = maths + physics;
```

```
        if (maths >= 65 && physics >= 55 && chemistry >= 50 &&  
            (totalAll >= 180 || totalMathPhy >= 140))
```

```
        {
```

```
            Console.WriteLine("The candidate is eligible for admission.");
```

```
        }
```

```
        else
```

```
        {
```

```
            Console.WriteLine("The candidate is not eligible for admission.");
```

```
        }
```

```
    }
```

```
}
```

OUTPUT :-

```
C:\WINDOWS\system32\cmd. X + v
*****
** Visual Studio 2022 Developer Command Prompt v17.14.10
** Copyright (c) 2025 Microsoft Corporation
*****

C:\Prit Khanpara\23SOECE11057\Tutorial-2>csc Class14.cs
Microsoft (R) Visual C# Compiler version 4.14.0-3.25359.3 (6dbcfd2f)
Copyright (C) Microsoft Corporation. All rights reserved.

C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class14
Input the marks obtained in Maths : 45
Input the marks obtained in Physics : 56
Input the marks obtained in Chemistry : 67
The candidate is not eligible for admission.

C:\Prit Khanpara\23SOECE11057\Tutorial-2>Class14
Input the marks obtained in Maths : 78
Input the marks obtained in Physics : 79
Input the marks obtained in Chemistry : 90
The candidate is eligible for admission.
```

15. Write a Program which accepts name from the user and prints the same

INPUT : R K University

OUTPUT: R K University

CODE :-

using System;

class Program

```
{
    static void Main()
    {
        Console.Write("Enter your name: ");
        string name = Console.ReadLine();

        Console.WriteLine("Output: " + name);
    }
}
```

OUTPUT :-

```
C:\WINDOWS\system32\cmd. X + v
*****
** Visual Studio 2022 Developer Command Prompt v17.14.10
** Copyright (c) 2025 Microsoft Corporation
*****

C:\Prit Khanpara\23S0ECE11057\Tutorial-2>csc Class15.cs
Microsoft (R) Visual C# Compiler version 4.14.0-3.25359.3 (6dbcf2f)
Copyright (C) Microsoft Corporation. All rights reserved.

C:\Prit Khanpara\23S0ECE11057\Tutorial-2>Class15
Enter your name: R K University
Output: R K University

C:\Prit Khanpara\23S0ECE11057\Tutorial-2>
```